

Notice of Allowability

Application No.

10/815,138

Applicant(s)

PALASKAS ET AL.

Examiner

Art Unit

Nurul M. Matin

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/13/2007.
2. ☒ The allowed claim(s) is/are 2-16, 18-31 and 40.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

1. This office action is in response to communication filed on 8/13/2007. Claims 1, 17, 32-39 and 41-42 are cancelled and claims 2-16, 18-31 and 40 are now pending on this application.
2. Applicant's amendment overcomes the following objection/rejection:
 - a. Rejection of claims 1-6, 9-13, 16-22, 25-29 and 32-42 under 35 USC 103(a).

Allowable Subject Matter

3. Claims 2-16, 18-31, 40 are allowable.

The following is an examiner's statement of reasons for allowance:

The allowable subject matter in claims 7, 14, 15, 23, 30, 31 and 40 pertains a method of reducing offsets of a transmitter comprising: coupling a limiter between an output of the transmitter RF circuitry and an input of receiver RF circuitry, the limiter to generate a receiver- transmitter calibration signal based on an output RF signal of the transmitter RF circuitry, the receiver-transmitter calibration signal having a non-image component, an image component and a main component, wherein the transmitter amplitude and phase mismatches are measured by performing the FFT on the receiver-transmitter calibration signal based on the non-image component, the FFT to separate

the image component, the non-image component and the main component. And applying the transmitter calibration signal comprising a single tone complex sinusoid generated by a subcarrier modulator, and wherein the method further comprises injection locking a voltage controlled oscillator at an output of the transmitter RF circuitry with the transmitter calibration signal to generate a low- image signal at the output of the transmitter RF circuitry. and the method is performed by a first communication station, and wherein after generating both the transmitter and receiver amplitude and phase offsets, the method further comprises: applying the transmitter amplitude and phase offsets to a transmit signal comprising transmit frequency-domain signals before performing an IFFT on the transmit frequency-domain signals; RF modulating and transmitting the transmit signal to a second communication station; receiving and RF demodulating a received signal received from the second communication station; and applying the receiver amplitude and phase offsets to receive frequency-domain signals comprising the received signal after performing an FFT on the received signal.

Claims 2-6, 8-13, 16 are dependent on claim 7.

Therefore, claims 2-6, 8-13, 16 are allowable for the same reason as for claim 7.

Claims 18-22, 24-29 are dependent on claim 23.

Therefore, claims 18-22, 24-29 are allowable for the same reason as for claim 23.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nurul M. Matin whose telephone number is 571-270-1188. The examiner can normally be reached on mon-fri (7:30-5:00).


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nurul Matin
Examiner

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MOHAMMED GHAYOUR
SUPERVISORY PATENT EXAMINER